49-9-10/13

Investigation of the influence of the thread torsion on the indications of the penduli of inclination meters.

± 360° also does not show any appreciable influence on the readings, the error being 0".20, i.e. the accuracy is the same as it would be without preliminary twisting and the value is about four times the accuracy of the indications of the inclination meters and, therefore, use of 0.2 mm dia. threads is not permissible for the H-IV inclination meter. The obtained results can be linked with the ratio of the limit stretching of the thread to the magnitude of the load; the graph, Fig.5, shows the dependence between the limit stretching of steel wire on the wire radius. There are 5 figures and 3 tables.

SUBMITTED: February 7, 1957.

ASSOCIATION: Ac.Sc. U.S.S.R., Institute of Physics of the Earth. (Akademiya Nauk SSSk Institut Fiziki Zemli).

AVAILABLE: Library of Congress

Card 2/2

\$/049/60/000/03/012/019 B131/2691

AUTHOR:

Karmaleyeva, R.M.

TITLES

An Attempt to Forecast the Time of Near-By Earthquakes

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya, 1960, Nr 3,

pp 467-474 (USSR)

ABSTRACT:

The author discusses the theory of forecasting based on the tilting motion of the ground observed before and after occurrence of catastrophic earthquakes, described by various authors (Refs 1-7). Examples of tilting on calm days and during earthquakes are illustrated in Figs 1 and 2 and Tables 1 and 2, respectively. The rate of tilting is calculated from the formula at the top of p 470 and some examples of the results obtained by this formula are given in Fig 3 and Tables 3 and 4. The deviation from the numal rate of tilting, which can be utilise in forecasting earthquakes, can be determined from the formula or 2 472. Some examples of such deviations are

Card 1/2

CIA-RDP86-00513R000720810003-0" **APPROVED FOR RELEASE: 06/13/2000**

1,3345

\$/049/62/000/011/004/006 D207/D308

39200

AUTHOR:

Karmaleyeva, R.M.

TITLE

On a certain correlation between the anomalous behavior of the ground surface tilts and the times of occurrence of earthquakes

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya 600-fizicheskaya, no. 11, 1962, 1557 - 1561

TEXT: An analysis was made of the ground tilts recorded over eleven years (1948-58) at the seismic station at Dunshamba with tilt-meters of V.F. Bonchkovskiy. A linear relationship was obtained between the number of recorded earthquakes (all those occurring at distances of ≤ 100 km and the strong ones occurring at larger distances) and the number of days per month at which the ground tilts varied rapidly and at random ("tilt storms"). Nearby (≤ 100 km) earthquakes to the east of Dunshamba showed a good correlation between the direction of tilt a f days before an earthquake and the geographical direction of the line joining the epi-

Card 1/2

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720810003-0"

1,331.6

5/043/62/000/011/005/006 D207/D308

AUTHORS:

Latynina, L.A. and Karmaleyeva, R.M.

TITLE:

First results of the observations made with horizontal extensometers in Tien-shang

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya geofizicheskaya, no. 11, 1962, 1574 - 1578

TEXT: The first long extensometers (deformographs) were installed in the USSR in 1961 at the Talgar geophysical station in the region of Alma-Ata. Two extensometers were placed horizontally in a horizontal tunnel 50 m from its entrance; at this location the diurnal temperature variations did not exceed several hundredths of a degree. The extensometers consisted of quartz tube sections joined by Invar unions; one (26 m long) was placed along the north-south direction, the other (4 m long) along placed along the morth-south direction, the other (4 m long) along the east-west direction. Each was fixed at one end to a concrete platform. The other end was free and it recorded the horizontal displacement of the earth's surface down to 0.2 μ . The intention

Card 1/2

KARMALEYEVA, R.M.

Some correlation of the anomalous rate of inclines of the earth's surface and the period of the occurrence of earthquakes. Izv. AN SSSR. Ser. geofiz. no.ll:1557-1561 N '62. (MIRA 15:11)

1. Institut fiziki Zemli AN SSSR.
(Dushanbe region—Seismology)

LATYNINA, L.A.; KARMALEYEVA, R.M. First results of observations performed with a horizontal extensometer in the Tion Shan. Izv. AN SSSR. Ser. geofiz. no.ll:1574-1578 N '62. (MIRA 15:11) 1. Institut fiziki Zemli AN SSSR. (Tien shan—Extensometer)

ACCESSION NE: AF5017165

AUTHORS: Balavadze, B. K.; Karmaleyeva, R. M.; Kartvelishvili, K. Z.; Latynina, G. L. K.

TITLE: Observations on tidal deformations of the earth by means of a horizontal extensomator in Thilisi

SOURCE: AN SSSR. Izvestiya. Fizika semli, no. 2, 1965, 75-79

TOPIC TAGS: tide, earth figure, deformation meter, quartz

ABSTRACT: Two large quarts extensometers were set up in the underground observatory of the Institut geofisiki Grunnakoy AN (Geophysical Institute of the Georgish Academy of Sciences) in Thilisi in 1962. The tunnel (100 m long) in which the instruments were placed is in tuffaceous sandstone and mulatone, and is lined with a layer of concrete 30-40 cm thick. One extensometer, with a 41-m base, is set up 40 m from the tunnel entrance. Its sensitivity is 0.22-10-9 mm, and it is oriented N 600 E. The other instrument, with a 14-5-m base, is set up 70 m from the entrance. Its sensitivity is 0.22-10-9 mm, and it is oriented N 600 E. The other instrument, with a 14-5-m base, is set up 70 m from the entrance. Its sensitivity is 0.7.10-8 mm, and it is oriented N 50 W. The instruments record the displacement of two fixed polyte on the earth's surface, the distance between Cord 1/2

L 62220-65

ACCESSION NR: AF5017165

the points being the instrumental base. Connection with the ground is made through rigid rods (tubes of transparent quartz glass, 5 m: long, 40 mm in diameter, and with walls 2-5 mm thick). A continuous record was obtained from only the N 50° W instrument because of moisture damage to the other. For June-September 1965 this instrument showed a tidal displacement amounting to 3.5.10°8 mm. The durations of the fluctuations were subjected to harmonic analysis to isolate the tidal component. The ratio of elastic constants (love number to Shida number) was found to be 6.6. Assuming the first to be 0.5-0.6; the second would then be 0.08-0.09, a value that is in good agreement with other authors. The value of the love number, computed separately, is found to be lower than that given by gravimetric data and inclinometer measurements. It is possible that the variation may be due to local peculiarities in deformation. Orig. art. has: 2 figures, 2 tables, and 8 formulas.

ASSOCIATION: Akademiya nauk SSSR, Institut fiziki Zemli (Academy of Sciences SSSR, Institute of Physics of the Earth)

SUBMITTED: 04May64

EMCL: CO

SUB CODE: ES. ME

NO REF SOV: 003

OTHER: 002

Cord 2/2

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720810003-0"

BALAVADZE, B.K.; KARMALEYEVA, R.M.; KARTVELISHVILI, K.Z.; LATYNINA, L.K.

Use of a horizontal extensometer in observing tidal deformations
of the earth at Tbilisi. Izv. AN SSSR. Fiz. zem. no.2:75-79 '65.

(MIRA 18:6)

1. Institut fiziki Zemli AN SSSR.

L 35930-66 EWT(1)/EWP(e)/EWT(m) WH/GW ACC NR: AT6011163 SOURCE CODE: UR/3197/65/000/002/0376/0381 4/7 AUTHOR: Latynina, L. A.; Karmaleyeva, R. M. BH ORG: Institute of the Physics of the Earth, AN SSSR (Institut Civiki TITLE: Measurement of horizontal displacements on the earth's surface, using quartz|Sextensometers SOURCE: AN EstSSR. Institut fiziki i astronomii. Sovremonnyye dvizheniya zemnoy kory. Recent crustal movements, no. 2, 1965, 376-381 TOPIC TAGS: crustal movement, horizontal crustal movement, geophysic instrument, seismologic instrument, CARTH CRUST, TECTONICS, SEISMOLOGY ABSTRACT: Since 1961 systematic observations of slow horizontal movements of the earth's surface have been conducted with a quartz extensometer (deformograph) at the Talgar geophysical station (near Alma-Ata). The instrumentation makes it possible to measure relative displacements of points on the earth's surface, horizontally scattered at 25 m (base of the instrument). The instrument is used for registration of contemporary tectonic movements, long-period seismic oscillations, tidal movements of the earth's crust, and movements caused by meteorological factors. The instrument is installed in a Card 1/2 UDC: 550.342

L 35930-66

ACC NR: AT6011163 passage running in a meridional direction. The bar of the instrument consists of quartz tubes, connected by invarsheves. One end of the bar is rigidly fastened to the rock (cemented at the base), the other end is free-moving. The motions of the free end of the bar are recorded twice: by direct registration and by remote photoelectric registration. A roller between the bar and the top of the base serve as the displacement sensor. The threshold value of registered displacements is 0.05 $\mu_{\rm e}$ Meximum rock displacements over a 3-yr period (October 1961--June 1964) were 30 μ . During the first three months the deformation was greater than in following months because the supporting bases had yet to become stabilized. Residual deformation for the 3 yr was 3 μ . Seasonal deformation with an amplitude of 1 μ was noted. A change in the sign of deformation was registered before the Aleutian earthquake of 29 March 1964. Soon after the earthquake the sign changed again. There is no adequate explanation for the relationship between these phenomena. direct relationship was detected between the rate of rock deformation and the moments at which nearby earthquakes occurred. The elastic constants of the earth, the Love number h and Shida (Japan) number were computed.as:0.36 and 0.05, respectively, on the basis of horizontal tidal-deformations. : As compared with the data of gravimetric and tiltmeter observations, h is lower by 30-40%; this can be explained by the fact that the instrument was near the surface of the ground.

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 003

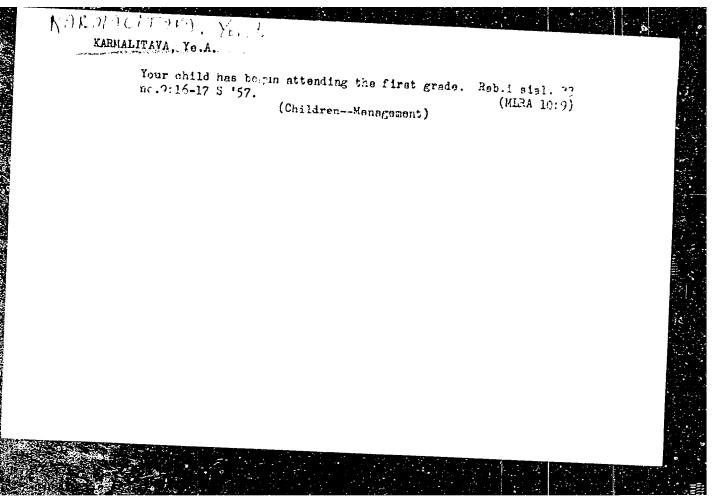
Card 2/2 11/

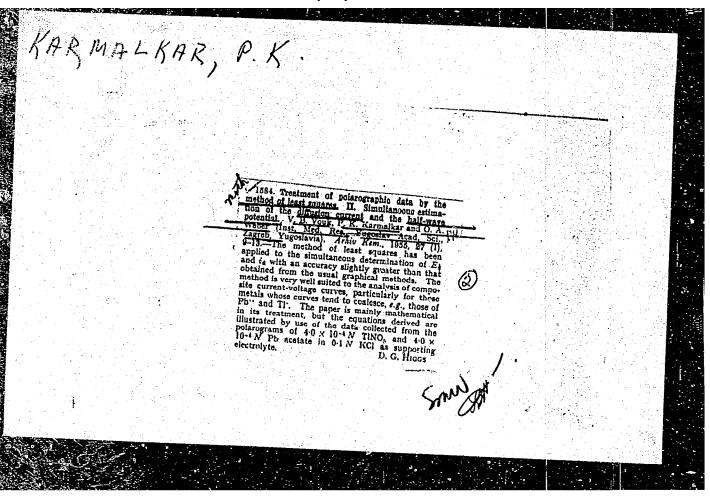
L 34985-66 EWT(1) GW ACC NR: AP6026256 SOURCE CODE: UR/0387/66/000/005/0033/0042 AUTHOR: Savarenskiy, Yo. F. (Doctor of physicomathematical sciences); Mersesov, I. L.; O.G: Institute of Physics of the Earth, AN SSSR (Institut fiziki Zomli AN SSSR) TITIE: Long-period waves of the Aleutian earthquake of 4 February 1965 recorded by SOURCE: AN SSCR. Izvestiya. Fizika zemli, no. 5, 1966, 33-42 TOPIC TAGS: earthquake, Rayleigh wave, internal friction ABSTRACT: This paper gives an analysis of long-period oscillations from the 1. earthquake of 4 February 1965 which occurred in the Aleutian Islands. The tremor (M = 8.5) was recorded by extensometers at Talgar (Kazakh SSR) and Dzherino (Tadzhik SSR). It was possible to detect groups of Love waves from the 2d to 9th order with periods from 70 to 720 sec and groups of Rayleigh waves from the 2d to 13th order with periods of 120-330 sec. The dispersion curves of the group velocities of these waves were obtained. The authors determined the amplitudes of the displacements in the R and L waves, the coefficients of decrease of the amplitudes γ and the parameter Q, characterizing internal friction in the earth. The value Q agrees with the data obtained by other authors. The values Q, determined from Love. waves, vary from 60 to 120 when T = 300-500; the values Q for Rayleigh waves vary in the range 150-200 hen T = 200. Orig. art. has: 7 formulas, and 3 tables. [JPRS: 36,553]
SUB CODE: 08 / SURM DATE: 03Aug65 / OTH REF: 7809

KARMALIN, N.

Improvements in the ultrashort wave radio station of the steamer "Olonets." Mor. flot 23 no.5:20 '63. (N.: (A 16:9)

1. Nachal'nik radiostantsii parokhoda "Olonets."
(Radio in navigation) (Radio, Shortwave)





DUBROVIN, Ye.; KARMAL'SKIY, O.; FILATOV, G.; LOKOTKOV, A.; LEBEDINSKIY, A.;

BARANOV, I.; MITSEVICH, P.; BABENKO, Ye.; GOLITSYN, A. (Ozery, Moskovskoy obl.); SHCHEPOTIN, I. (Ozery, Moskovskoy obl.); KHALANGOT, A. (Snezhnoye, donetskoy obl.); KUZ'MICHEV, N. (Snezhnoye, Donetskoy obl.); SIRITSA, A., inzh. po ratsionalizatsii

This is the way we live. Izobr. i rats. no.10:4-5, 23 '63.

(MIRA 17:2)

1. Chlen soveta obshchestvennogo konstruktorskogo byuro zavoda im. V.I.
Lenina (for Karmal'skiy). 2. Predsedatel' Amurskogo oblastnogo soveta
Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Filatov).
3. Predsedatel' Chelyabinskogo promyshlennogo oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Lokotkov). 4.
Starshiy svarshchik Odesskogo zavoda imeni Dzerzhinskogo (for Lebedinskiy).
5. Pre sedatel' zavodskogo soveta Vsesoyuznogo obshchestva izobretateley
i ratsionalizatorov (for Baranov). 6. Predsedatel' soveta Vsesoyuznogo
obshchestva izobretateley i ratsionalizatorov Irkutskogo zavoda tyazhelogo
mashinostroyeniya imeni Kuybysheva (for Mitsevich).

Earnan, G. E. - "File Development of the General School in the Education Earling in the Forth Five-Year Flam (196-1960)." Nin Education Education Education Education Education Education Education Education For the Detroit of Candidate in Pedagogical Sciences).

So: Enighnapa Lebogia', No. 40, 176, pp 31 -1.7

HERK, Gyorgy, dr., Fullial, I man, the many expenses.

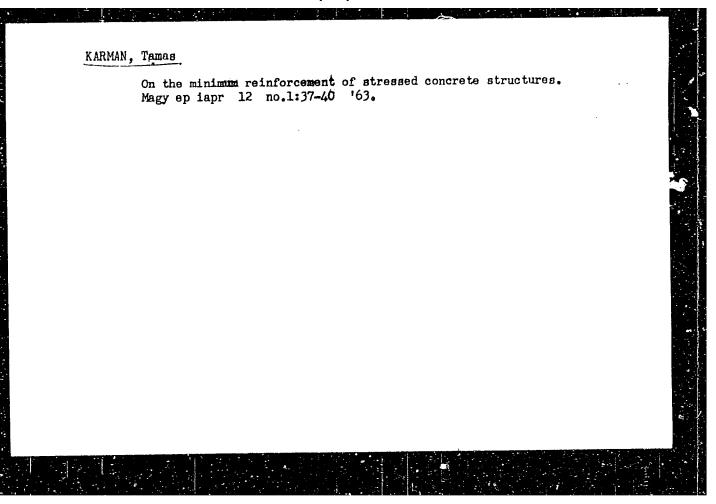
Unification of the tealership prescriptorum of mung trunces in the Council for Datus Greening Assistance Southernes, Spites seemle 8 no. 6.195-199 for.

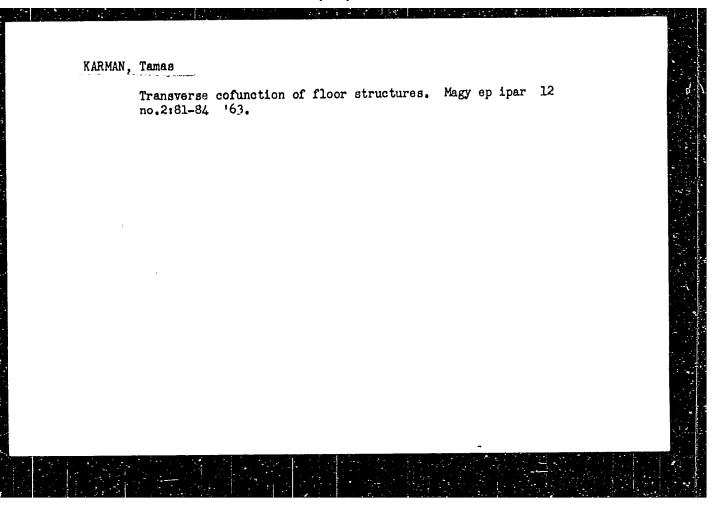
1. Fire ter, antity festing interform of the truncile findingry, Ministry of Genetics to a. Edge of the view.

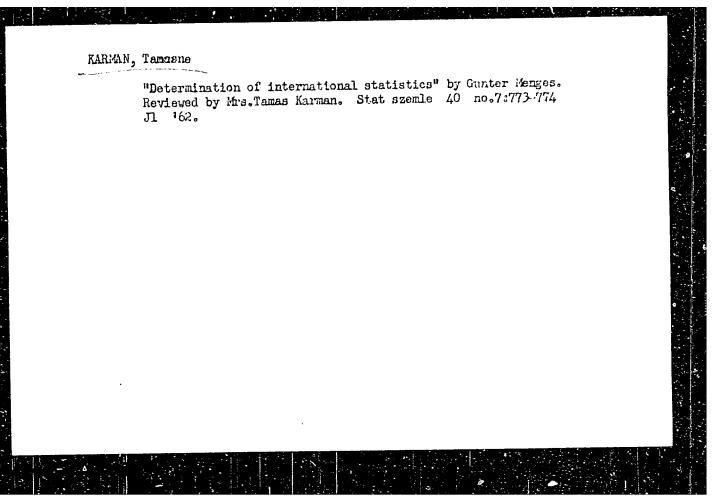
2. Scientific institute of Security time, Estingers for Farrant.

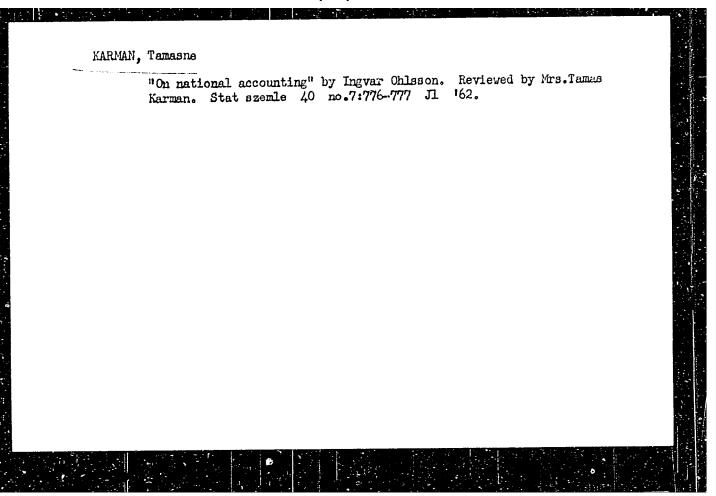
GARAY, Lajos, dr.; KARMAN, Tamas

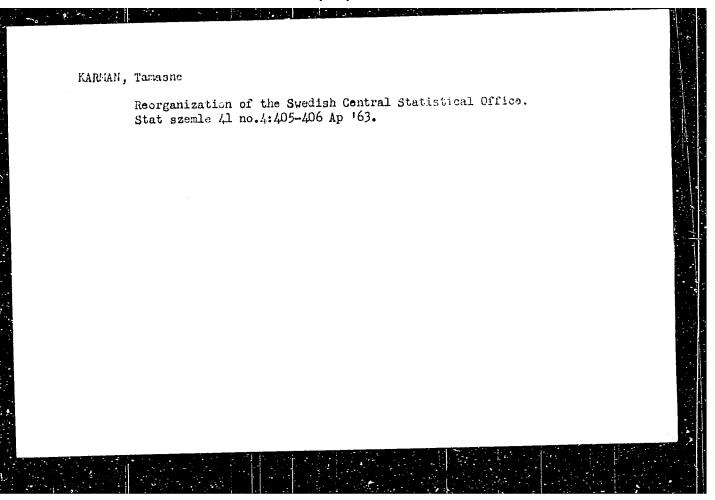
Power transmission of tensioning inserts. Magy ep ipar 10 no.11:514-516 N $^{\circ}61$.

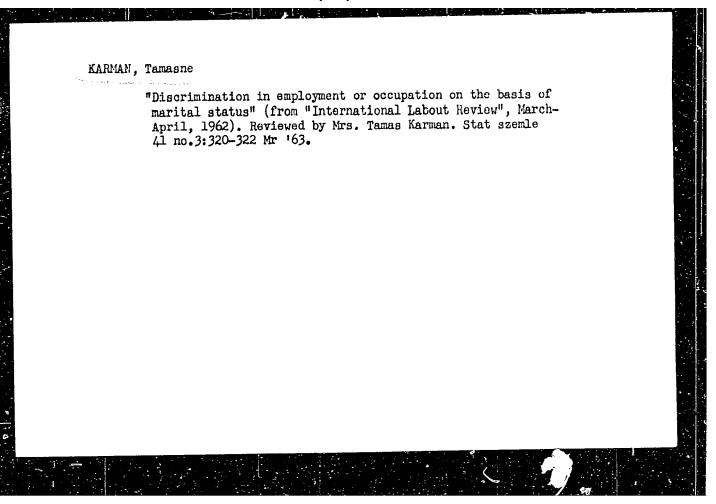




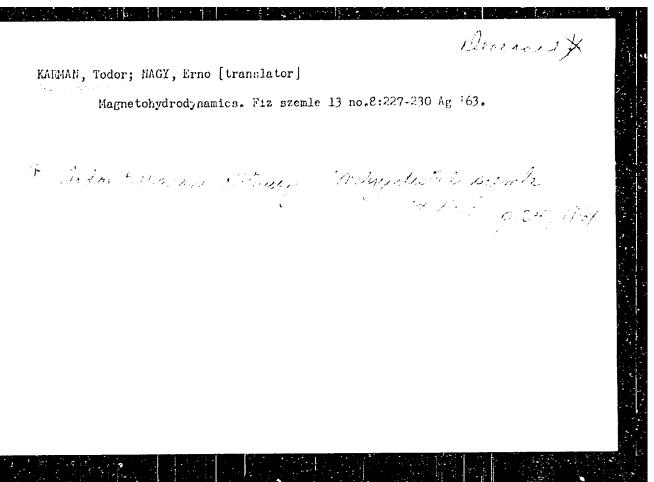




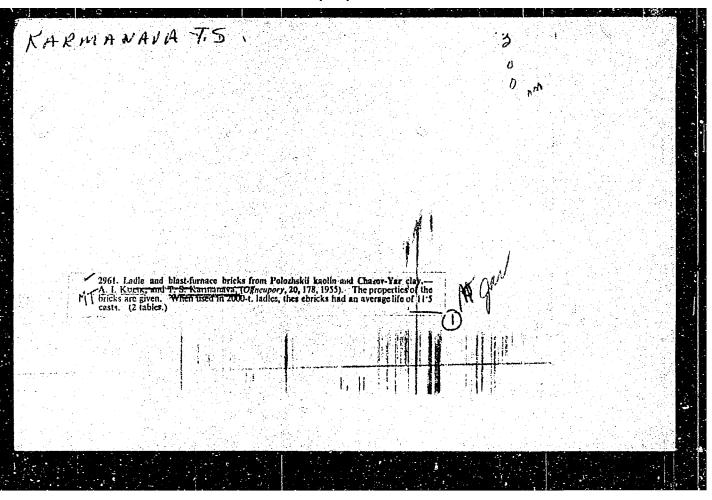




BORN, Max; KARMAN, Todor; GYORGYI, Geza [translator]
Oscillations in space lattices. Magy fiz folyoir 10
no.1:47-69 '62.



The O-meson and the Fermi - Yang hypothesis. Zhur.eksp.i teor.fiz. 781-782 Ap '56. (MLRA 9:8) 1. Minskiy pedagogicheskiy institut. (Nesons) (Particles, Elementary)



ISFRSON, G.B.; KARMANOV, A.A.

Metal extraction from Severskii Plant dumps. Stal' 15 no.9:842-844 S'55.

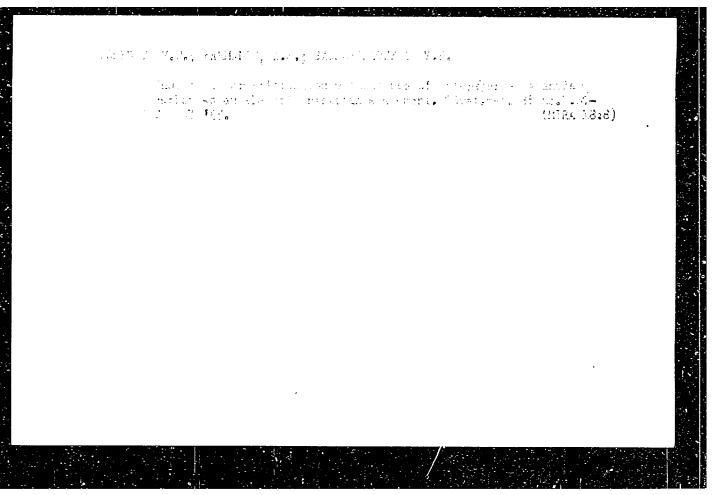
(MLRA 8:12)

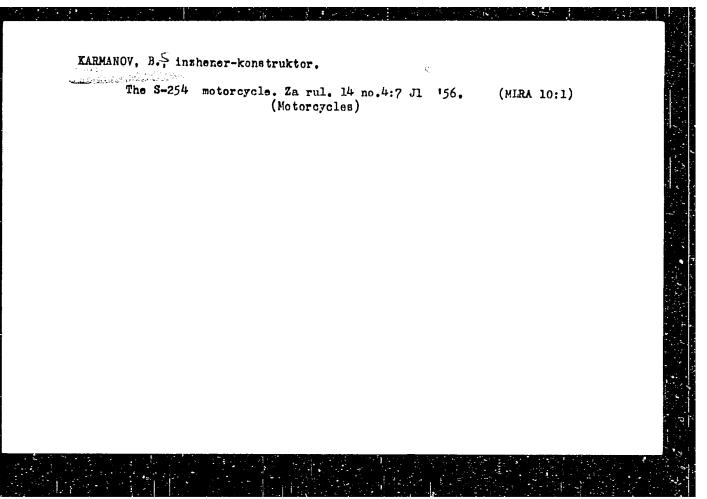
1. Severskiy metallurgicheskiy zavod
(Polevskoy--Metallurgical plants)

PETROV, Aleksey Semenovich; KARMANOV, Aleksandr Ivanovich; KULANDIN,
Ya.I., red.; LEVANDOVSKIY, S.N., red.; COLYATKINA, A.G.,
red. izd-wa; ISLENT'YEVA, P.G., tekhn. red.

[Manufacture of rolls for cold rolling] Proizvodstvo valkov
kholodnoi prokatki. Moskva, Metallurgizdat, 1962. 216 p.

(Rolls (Iron mills))





IVANITSKIY, Svystoslav Yur'yevich, inzh.; RGOZHIM, Vsevolod VyachislavoVich, inzh.; BERMAD, V.V., inzh., retsenzent; GINTSBURG, M.G., retsenzent; SMELYANSKIY, V.A., inzh., red.; UVAROVA, A.F., tekhn.red.

[Motorcycles; construction, theory, design] Mototsikl; konstruktoita, teoriia, reschet. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.

1it-ry, 1958. 503 p.

(Motorcycles)

KAKMANOY, B.S

AUTHOR:

Tikhomirov, I.N.

115-58-7-24/25

TITLE:

Critique and Bibliography (Kritika i bibliografiya)

PERIODICAL:

Avtomobil'naya promyshlennost', 1958, Nr 7, pp 44-45 (USSR)

ABSTRACT:

This is a review of the book "Mototsikl. Konstruktsiya, teoriya, raschët" (The Motorcycle. Manufacture, Theory, Calculation) by S.I. Ivanitskiy, Yu.V. Ignatov, B.3. Karmanov, and V.V. Rogozhin, published by Mashgiz in 1958. This book is the first treatment of the theme in 11 years and gives sufficient and up-to-date information on motorcycles for students and factory workers in the field. The chapter on the engine fuel supply system is awkward. Also some diagrams and figures of parts

are obsolete and have since been replaced.

There are 3 Soviet references.

ASSOCIATION:

Voronezhskiy sel'skokhozyaystvennyy institut (The Voronezh

Agricultural Institute)

1. Motorcycles--Production

2. Motorcycles-Theory 3. Motorcycles

-- Mathematical analysis

Card 1/1

Modernization of the S-157 motorcycle. Za rul. 18 no.2:10-11
F '60. (MIRA 13:6)

1. Vedushchiy konstruktor TSentral'nogo konstruktorsko-eksperimental'nogo byuro mototsiklostroyeniya, Serpukhov.

(Motorcycles)

ACC NR: AP7000362

(A)

SOURCE CODE: UR/0413/66/000/022/0134/0134

INVENTOR: Ivanitskiy, S. Yu.; Karmanov, B. S.

ORG: none

TITLE: Rotory-piston internal-combustion engine. Class 46, No. 188794 [announced by the Central Experimental Design Bureau of Motorcycle Building (Tsentral'noye konstruktorsko-eksperimental'noye byuro mototsiklostroyeniya)]

SOURCE: Izobreteniya, promyshlennyya obraztsy, tovarnyya znaki, no. 22, 1966, 134

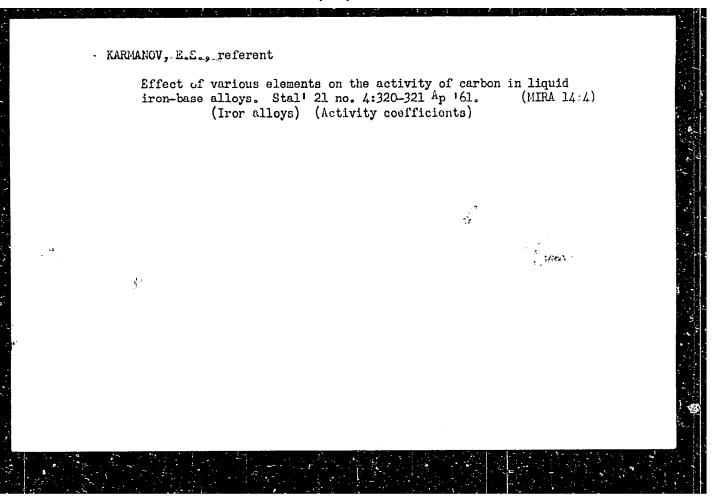
TOPIC TAGS: rotory engine, piston engine, internal combustion engine, engine component

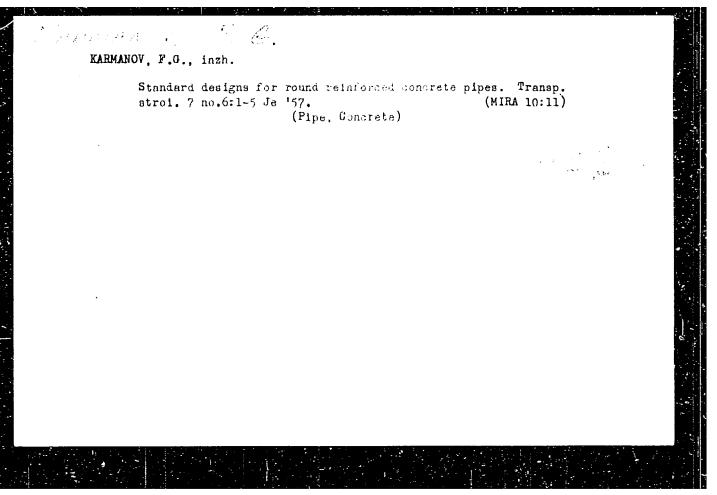
ABSTRACT: An Author Certificate has been issued for a rotory-piston internal-combustion engine consisting of a block with n cavities of epitrochoidal profile and a shaft carrying an eccentrically mounted rotory-piston with n + 1 protrusions, forming with the cavities (during a planetary motion) the working chambers; it is cooled by the fuel mixture fed by an axial fan through channels in the rotory piston. To simplify the design and increase the coefficient of charge, in the rotory-piston channels are arranged fan blades in the form of radial ribs placed at an angle to the rotory piston's axis of rotation. The opening for feeding fuel into the working chamber can be located on epitrochoidal surface of the block. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 04Aug65/

Card 1/1

UDC: 621.437.26





KARMANOV, F.G., inzh.

Rearrangement of the supporting elements of a reinforced concrete overpass. Put' i put.khoz. 7 no.7:25-26 '63. (MIRA 16:10)

1. Glavnyy spetsialist otdela mostov Sibgiprotransa, Novosibirsk.

AFONIN, I. P.; GAVRILOV, B. I.; ZAVOYSKIY, Ya. K.; KARMANOV, F. V.;
MAKSINOV, G. P.; PLAKHOV, A. G.; CHERDMIYKH, P. A.;
SHAPKIN, V. V.

The experimental plasma apparatus C-1 with scrow magnetic fields. Atom. energ. 14 no.2:143-150 F '63.

(MIRA 16:1)

(Plasma(Ionized gases)) (Magnetic fields)

ACCESSION NR: AFSO09121

ACCESSION NR: AFSO09121

S/0009/65/019/003/0273/0275

AUTHOR: Cavrilov, B. I.; Karmanov, F. V.; Maksinov, G. P.

TITLE: On the operation of a cylinderizer in a stellarator //

SOURCE: Atomnaya energiya, v. 18, no. 3, 1965, 273-275

TOPIC TACS: stellarator, magnetic field configuration, cylinderizer, magnetic trup

ARSTRACT: The authors present preliminary results of the experimental verification of one variant of a "cylinderizer" which trensforms triangular magnetic surfaces in a stellarator into cylindrical surfaces. Approximate calculations for such devices were presented by E. Friman et al (The Proposed Model C Stellarator Facility, Project Matternor, Chail, V. NVO-7899, p. 78). The cylinderization of helical magnetic surfaces, produced by a triflian helical winding, was investigated by sweeping electron beams from a source of 19 beams placed in an adally-symmetrical magnetic field. The electron beams were made to follow circular paths and sace displayed on a fluorescent screen after passing along the magnetic force lines through the region of the investigated helical magnetic field. The chamber such the system of colls to produce the magnetic field are described briefly. The cylicard 1/2

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nderizer described was found nurface, and cylinderization of gain. It was necessary to either cylinderizer by 1/3. If the cylinderizer by 1/3. If surjent, and the pitch of the le has: 3 figures and 2 form	of the magnetic surfaces to ther reduce the curvent by elations between the cylin trifilm helical winding	o acquire triangular form 110% or reduce the langth idenizar dimensions, the	
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L 58334-65 EWT(1)/EPF(n)-2/EWG(m)/EPA(w)-2 Pz-6/Po-4/Pab-10/Pi-4 IJP(c)

ACCESSION NR: AT5010442

UR/3136/64/000/668/0001/0010

AUTHOR: Karmenov, F. V.; Kel'nikov, V. K.

TITLE: On the compensation of perturbation of a helical asgnetic field

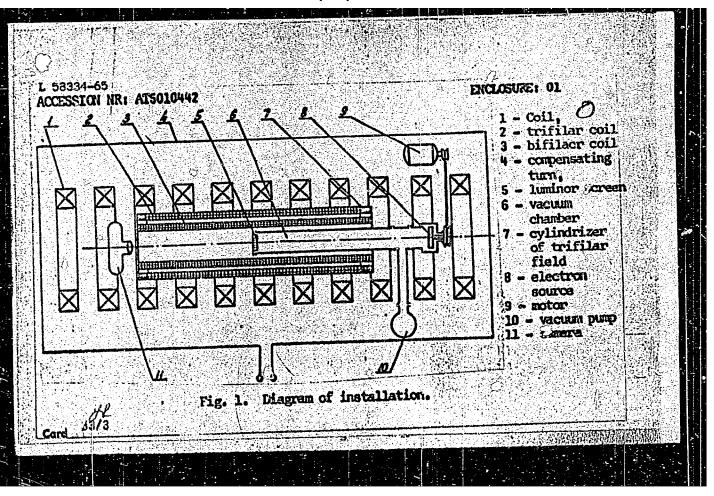
SOURCE: <u>Moscow. Institut atomnoy ency ii</u>i. Doklady, no. 668, 1964. O kompensatsii vozmushcheniy vintovogo magnitnog polya, 1-10

TOPIC TAGS: plasma perturbation, magnetic trap, magnetic field configuration, magnetic field perturbation, plasma containment

ABSTRACT: Continuing earlier work by one of the authors (Mel'nikov, DAN v. 149, no. 5, 1056, 1965), who proposed the idea of compensating the perturbations of a helical magnetic field resulting from the drift of some part of the force lines from the region bounded by separatrix branches; the authors report that they have confirmed experimentally the conditions under which the perturbations can be compensated for. They also, show that in the case when the compensation conditions are not satisfied, the drift of the force lines becomes stronger. The particular perturbation considered is that of a trifilar helical magnetic field by a combination of a bifilar magnetic field and a constant perpendicular magnetic field. The ex-

Card 1/3

58334-65 CCESSION BR: AT5010442			9
erimental set-up is shown in mamber of cylindrical form, ther a lumine cent screen, istance from the source to avrilor, G. P. Kaksimov, an	on one of which is the inside radius of the screen was 230 cm. d P. A. Cheremyki for	e electron source and the chamber was 5 cm s "The authors thank] help with the work ar	on the ind the
luable advice." Orig. ert			
BOCIATION: none		NO.	
EMITTED: 00	ENCL: 01	∷ BUB CODE: 3	CE
REF SOV: 003	OTHER: OÖO		
	W.		
	NTA A		
2/3			
d 2/3			



L 2190-66 EWT(1)/ETC/EPF(n)=2/EWG(m)/EPA(w)-2 IJP(c) 4T UR/0057/65/035/008/1385/1389 ACCESSION NR: AP5020722 44,55 AUTHOR: Karmanov, F. V.; Mel'nikov, V. K. On compensating distortions of a helical magnetic field TITLE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 8, 1965, 1385-1389 SOURCE: TOPIC TAGS: helical magnetic field, combined magnetic field, transverse magnetic field, perturbation, plasma confinement ABSTRACT: One of the authors has previously given a theoretical treatment of distortions of a helical magnetic field and their compensation (V.K.Mel'nikov. DAN SSSR, 144, No.4, 747, 1962; ibid 149, No.5, 1056, 1963; Trudy Moskovsk. matem. obshch., 12, 3, 1963). Because of the large distortions of the separatrix produced by comparatively small perturbing fields, the authors consider it over-optimistic to anticipate only a small loss of particles to the walls of a stellarator owing to the toroidal geometry of the tube. The present paper reports an experimental test of the helical field perturbation compensation theory. A triple helical field of 150 cm reciprocal pitch was produced in a 5 cm radius 230 cm long cylindrical chamber by a 7 cm radius winding; a 100 cm reciprocal pitch double Card 1/2

L 21,90-66

ACCESSION NR: AP5020722

12

helical perturbing field was produced by a 5.6 cm radius winding, and a plane componenting field normal to the axis of the chamber was also provided. In addition to these fields, there was a 400 Oc uniform magnetic field parallel to the axis of the chamber. Electrons were injected at one end of the chamber, apparently by a hot cathode that was rotated to assure an axially symmetric beam, and were caught on a fluorescent screen at the other end of the chamber. The electron patterns on the fluorescent screen were photographed for different strengths of the main helical field, the perturbing helical field, and the compensating field and are compared with the predictions of the theory (loc cit supra), which are derived here anew. The experimental results were in agreement with the theory. The authors consider it their pleasant duty to express their gratitude to B.I.Gavrilov, Ye.K.Zavovskiy, G.P.Makaimov, and P.A.Cheremnykh for valuable advice and assistance with the work. Orig. art. has: 13 formulas and 7 figures.

ASSOCIATION: none

SUBMITTED: 07Dec64

ENCL: 00

SUB CODE: Els, ME

NR REF SOV: 003

OTHER: 000

Cord 2/2

EWT(m)/T/EWP(q)/EMP(b) ASD(f)/AFWL/SSD/AS(mp)-2/Pb-4 JD/JW/JG L 6816-65 5/0048/64/028/008/1373/1376 ACCESSION HR: AP4044656 AUTHOR: Karmanov; G.A.; Ptushinskiy, Yu.G. TITLE: Procedure for measuring the amount of adsorbed gas Report, Third All-Union Conference on Semiconductor Compounds held in Kishinev 16-21 Sep 19637 Source: AM SSSR. Izv. Seriya fizicheskaya, v.28, no.3, 1964, 1373-1376 TOPIC TACS: adsorption, adsorption rate, chemisorption, carbon monoxide, tungsten ABSTRACT: The adsorption of carbon monoxide on tungsten was investigated at teaperatures from 77 to 2930K by a modification of the flash desorption method of J. Becker and C.Hartman (J.Phys.Chim.57,157,1963). The measurements were undertaken because of the lack of reliable low temperature data, particularly for the rate of adsorption, sithough the phenominon has been adequately investigated at higher texperatures. As indicated by their choice of tible, however, the authors regard their modification of the flash description method as at least as important as their results concerning carbon someride. This modification consists in heating the tungsten adsorber by discharging a capacitor through it, rather than by suddenly applying a constant est. By discharging a 1360 microfered capacitor charged to 140 V 1/3

L 6816-65

ACCESSION NR: AP4044656

through their tungsten strip (dimensions not given) the authors were able to bring it to 2500°K within & millisec, whereas approximately one second was required to heat the strip to that temperature by applying a do voltage. The rapid change in pressure accompanying the rapid heating of the adsorber was followed by means of an ionization gage and an oscillograph. The advantage of the rapid flash is that the system may be continuously pumped at a reasonable rate without appreciably affecting the peak pressure. Adsorption isobars for CO on K were obtained at pressures from 10-5 to 10-7 mm Hg and temperatures from 77 to 253 K, and adsorption rates were measured. The initial adsorption rates (onto a clean surface) were snalyzed with the aid of the equation of V.M. Gavrilyuk (Dokl. AN SSSR, 141, 1124, 1961), and it was found that the differnce between the heat of (physical) adsorption and the activation energy for chemisorption is 0.04 eV. The heat of adsorption was calculated as a function of the surface density of adsorbed gas from the adsorption isobars. It was found to decrease from 0.43 eV at 7.7 x 1014 cm -2 to 0.19 eV at 11 x 1014 cm -2 (approximately one CO molecule per surface W atom) and to remain constant at thic value at higher densities. This constant high density heat of adsorption is regarded as the heat of physical adsorption, and it is accordingly concluded that the sotivation energy for chemisorption is 0.15 eV. Orig.art.has; 1 formula a) 7 figures.

2/3

ASSOCIATION: Institut fiziki Solences, SSER)	Akademii nauk SSSR (<u>Institute of</u>	Physics, Academy of
SUBMITTED: 00		ENCL: 00
BUD CODE; CC, CP	MR REF SOVI 003	OTHER: COS
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SOV/137-57-1-1056

Translation from: Referativnyy zhurnal. Metallurgiya, 1957, Nr 1, p 137 (USSR)

Karmanov, G. V., Luzhbin, B. P. AUTHORS:

Increasing the Productivity of Quenching and Tempering Furnaces TITLE:

for Heat Treatment of Connecting Rods of a Do Diesel Engine (Uvelicheniye proizvoditeľnosti zakalochnykh i otpusknykh pechey dlya

termicheskoy obrabotki shatunov dizel'motora D6)

PERIODICAL: Tekhnol transp. mashinostroyeniya, 1956, Nr 4, pp 59-61

AESTRACT: A buggy-type device was designed which permits doubling the num-

ber of connecting rods (made of steel 18KhNVA) charged into the tempering furnace (F). The removal of the connecting rods and their delivery to the table of the F, where the stacked rods are gripped with a special device and are transferred by a crane to the cooling station, is also accomplished with the aid of the buggy. The design of the shaft F for tempering of connecting rods was improved. The productivity of the F was doubled by means of

expanding its working zone without changing the external dimen-

sions of the housing. M. Ch. Card 1/1

CIA-RDP86-00513R000720810003-0" APPROVED FOR RELEASE: 06/13/2000

KAHMANOV, I.

"The development of methods of aerial photo interpretation in the Soil Section of the International Training Center for Aerial Survey" by P. Buringh. Reviewed by I. Karmanov. Pochvovedenie no.5:113-114 My 163. (MIRA 16:5)

(Soil survey) (Photographic interpretation) (Buringh, P.)

Surface subsidence in potash mines. Gor.zhur. no.10:72-73 0 60. (MIRA 13:9)
l. Vsesoyuznyy nauchno-izeledovatel'ekiy institut galurgii, Leningrad.
(Subsidences (Earth movements)) (Potash)
•

EULATOV, A.I.; KARMANOV, I.A.

Coments of reduced specific weight for comenting desp high-temperature wells. Gaz. prom. 7 no.128-16*62 (MRRA 17:7)

Changes in the temperature of clay muds at the well head occurring in drilling. Trudy KF VNII no.9:12-20 '62. (Oil well drilling fluids)

BULATOV, A.I.; KARMANOV, I.A.

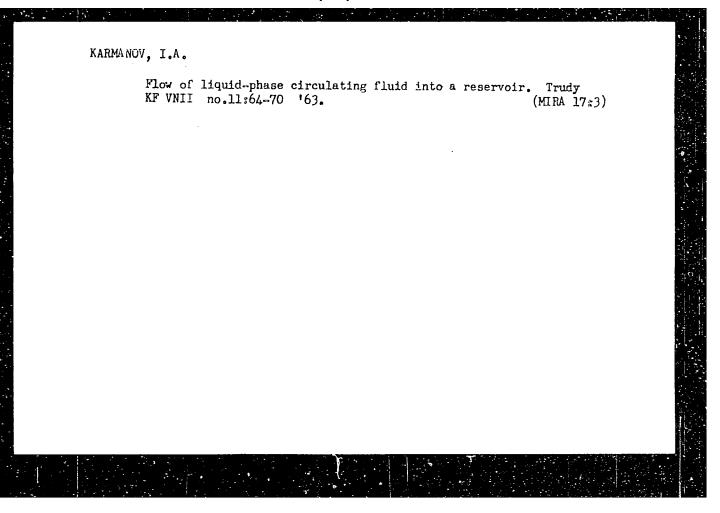
Industrial use of slag-sand cement in cementing deep wells in the Kuban. Trudy KF VNII no.9:50-55 '62. (MIRA 15:9) (Kuban--Oil well cementing)

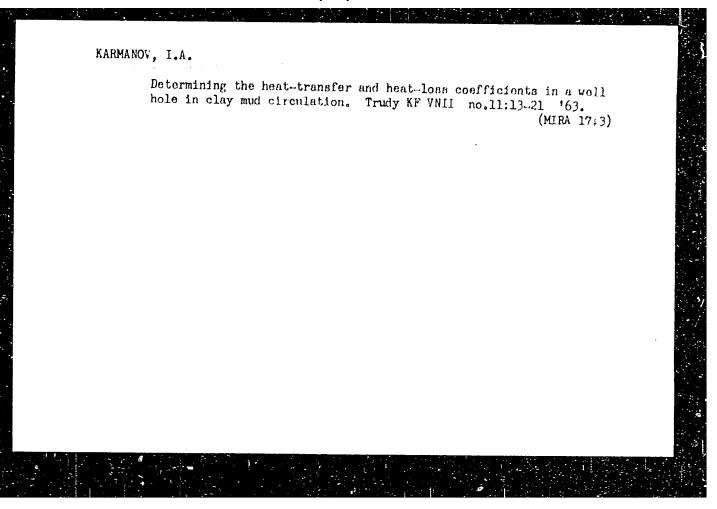
BULATOV, A.I.; KARAYEV, A.K.; KARMANOV, I.A.; SIDOROV, N.A.

Using cement slurries of the reduced specific gravity in fields of Krasnodar Territory. Neft. khoz. 40

ro.5:21-25 My '62. (MIRA 15:9)

(Krasnodar Territory. Cil well cementing)



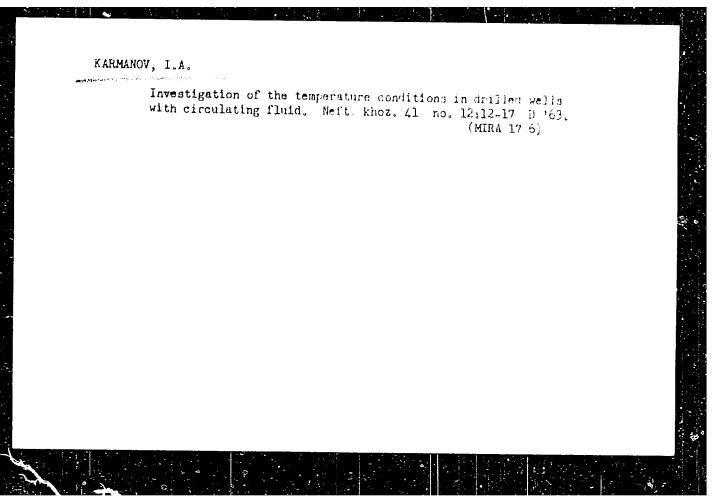


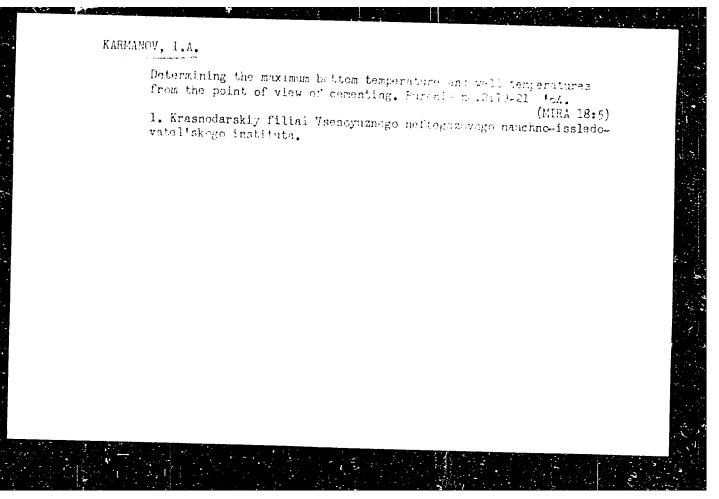
KARMANOV, I.A.; BULATOV, A.I.

Evaluating the flow properties of cement slurries. Neft.

khoz. 42 no.1:19-23 Ja'64.

(MIRA 17:5)





KARMANOV, I.A.; BULATOV, A.I.; GAYVORONSKIY, V.V.; OZERKOV, S.A.

Investigating the thickening of cement growing at high temperatures and pressures. Burenie no.7:23-27 165. (MIRA 18:12)

1. Krasnodarskiy filial Vsesoyuznogo neftegazovago nauchnesissledovatel'skogo instituta.

KARNANOV, I.I.

Genetic and regional characteristics of Chernozems typical to the northwestern Altai [with summary in English]. Pochvovedenie no.3:42-50 Mr '58. (MIRA 11:4)

1. Pochvennyy institut im. V.V. Dokuchayeva AN SSSR. (Altai Territory--Chernozem soils)

Soils of rice paddies in Lower Burma and other regions of the Burma Union. Pochvovedenie no.8:37-44 Ag '60. (MIRA 13:8) 1. Fochvennyy institut im. V.V.Dokuqhayeva Akademii nauk SSSR. (Burma--Soils)

KARMANOV, Ivan Ivanovich; LIVEROVSKIY, Yu.A., doktor geogr. nauk, otv. red.

[Soils in the piedmont of the northwestern Alta and their use in agriculture] Pochvy predgorii Cevero-Zapadnego Altaia i ikh ispol'zovanie v nel'skom khorinistve. Mockva, Bauka, 1965. 167 p. (Fiba R8.5)

KARMANOV, I.M., general-mayor intendantskoy sluzhby; BESPALOV, P.H.

Startmiy leytenant; DEMENT'YEV, K.I., polkovnik

[Automobile driving course] Kurs bozhdeniia avtonobilei.[Moskva]
Voen.izd-vo Ministerstva vooruzhennykh sil SSSR, 1946,84 p

(MERA 8:10)

1. Russia (1923- U.S.S.R.) Armiya. Glavnoye avtomobil'noye upravleniye.

(Automobile drivers)

VITVITSKIY, G.N.; KRAVCHENKO, D.V.; NIKOL'SKAYA, V.V.; CHICHAGOV, V.P.;

KURENTSOV, A.I.: VOROB'YEV, D.P.; LIVEROVSKIY, Yu.A.; KARMANOV, I.N.;

PETROV, B.F.; KOLESNIKOV, B.P.; KABANOV, N.Ye.; D'ITRITEVA, N.G.;

RIKHTER, G.D., doktor geogr. nauk, otv. red.; LADYCHUK, L.F., red.

[The Far East; its physical geography] Dal'nii Vostok; fizikogeograficheskaia kharakteristika. Moskva, 1961. 4,36 p.

[Akademiya nauk SSSR. Institut geografii. 2. Institut geografii
AN SSSR (for Vitvitskiy, Kravchenko, Nikol'skaya, Chichagov). 3. Dal'nevostochmyy filial AN SSSR (for Kurentsov, Vorob'yev). 4. Pochvenmyy institut AN SSSR (for Liverovskiy, Karmanov, Petrov). 5. Biologicheskly institut Ural'skogo filiala AN SSSR (for Kolesnikov). 6. Institut lesa AN SSSR (for Kabanov). 7. TSentral'nyy institut prognozov
(for Dmitriyeva).

(Soviet Far East--Physical geography)

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KOSYGIN, A.; NOVIKOV, V.; MURAV'YEVA, N.; ZOTOV, V.; AKIMOV, I.;

SPORTSHEY, V.; KOLOSOVA, V.; CHESNOKOV, N.; NEFEDOVA, O.;

BOCAYEVA, A.; PIKOVSKIY, G.; KARMANOV, M.; SIYTAM, Yo.;

KHODAKOVA, S.; KUSHNER, P.; BUTAKINAN, I.; BASSIAS, L.;

KIMESHENTSEVA, A.; REZNIKOV, M.; KALININ, S.; NILANOVA, D.;

VENGEROVA, R.; AGROSKINA, M.; RATHER, B.; NARODETSKIY, B.;

MARKOVA, L.; GOLUBENKOVA, N.; TSEKHANSKAYA, S.; TERENT'YEVA, N.;

NESTEROVA, S.; AKSENOV, S.

D.M.Khazan-Andreeva; Obituary. Tekst.prom. 21 no.12:90 D '61.

(MIRA 15:2)

(Khazan-Andreeva, Dora Moiseevna, 1894-1961)
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KARMANOV, N.G.

USSR/Farm Animals - Cattle.

શ-3

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 30948

Author

: Karmanov N.G.

Inst Title

Some Exterior and Production Indexes of the Shamarskiy

Cattle.

(Nekotoryye ekster'yernyye i produktivnyye pokazateli

shamarskogo skota).

Orig Pub

: Tr. Sverdl. s.-kh. in-ta, 1957, 1, 179-185.

Abstract

: The study of the Shararskiy cattle in the Sverdlovsk Oblast' showed the existance of 3,000 hybrids of different generations of the Tagilo-Shamarskiy cattle. The Sharmrskiy breed, by its body build, is nearer to the dairy type, has a live weight of over 400 kg. and a milk yield of 966-1097 kg. with a fat content of 4.42% (3.9-5.6). It is recommended to switch from the method of "blood absorption" to the method ""reproductive"

Card 1/2

KARMANOV, N.G., kand. sel'skokhozysystvennykh nauk

Urgent tasks in breeding Tagil cattle. Zhivetnovedstve 20 no. 10:4853 0 '58. (MIRA 11:10)

1. Sverdlovskiy sel'skokhozysystvennyy institut.

(Cattle breeds)

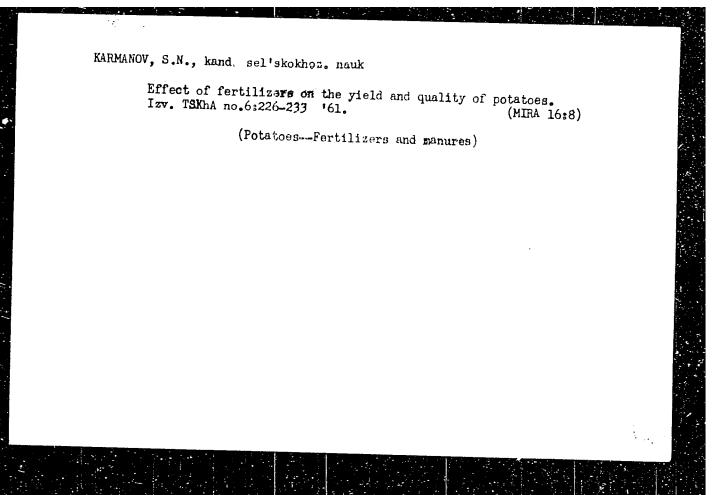
PAPERNYY, Yevgeniy Aleksandrovich; EYDEL'SHTEYN, Igor' Lazarevich;
KRASITSKIY, Miroelav Stepanovich; KARVARCV, S., red.

[Proper temperature measurement] Pravil'neo izmerenie temperatur. Kaliningrad, Kaliningradskoe knizhneo izd-vo,
1964. 136 p. (MIRA 17:11)

KARMANOV, S.N., kand.sel"skokhozyaystvennykh nauk

Effect of fertilizers on the seed qualities of potatoes. Agrobiologia no.5:768-770 S-0 '60. (MIRA 13:10)

1. Moskovskaya sel'skokhozyaystvennaya akademiya imeni K.A. Timiryazeva. (Potatoes--Fertilizers and manures)



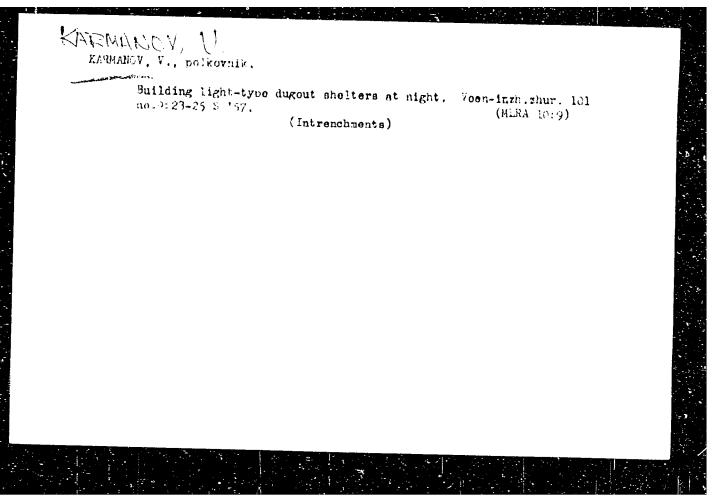
KARMANOV, S.N., kand.sel'skokhozyaystvennykh nauk

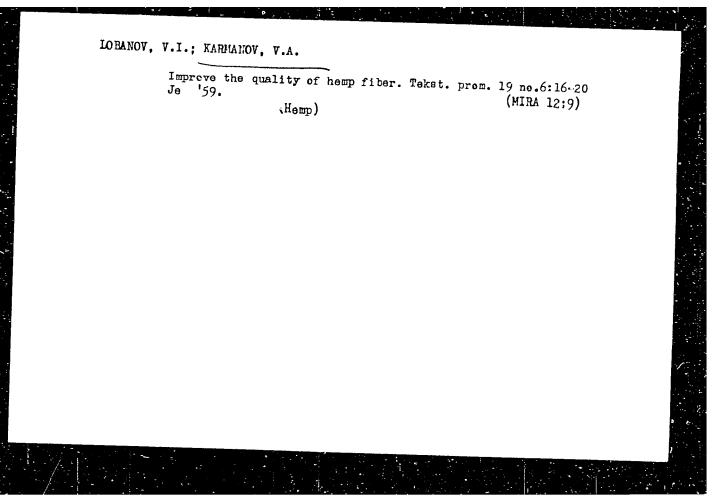
Growing potatoes on drained peat soils as a reliable method for improving their seed qualities. Agrobiologiia no.5:789-790 S-O '62. (MIRA 15:11)

1. Moskovskaya sel'skokhozyaystvennaya akademiya imeni K.A.

Timiryazeva. (Seed potatoes)

KARMANOV, T. Protection of ice holes against freezing. Pozh.delo 9 no.li6 Ja '63. (MIRA lóil) 1. Sovkhoz "Doskino", Gor'kovskaya obl. (Fire extinction—Water supply)



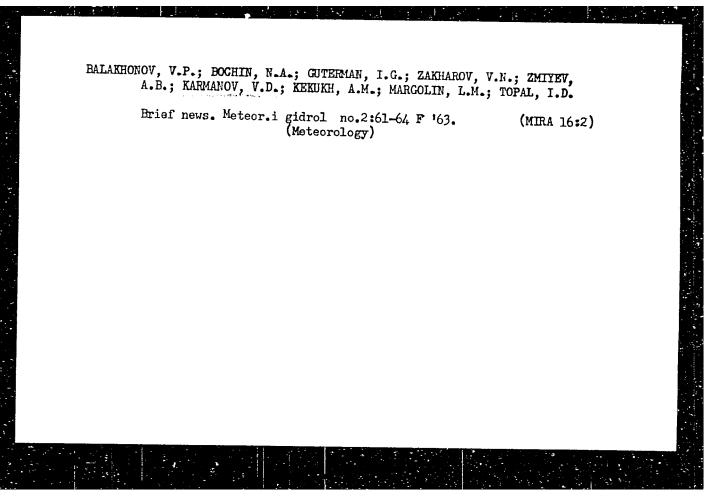


16468-65 EWI(m)/EPF(n)-2/EPR/T/EWP(t)/EWP(b) Ps-4/Pu-4 IJP(c)/ASD(f)-2/ ASD(m)-3 MJW/JD/JG/MLK ACCESSION NR: AT4048077 s/0000/64/000/000/0227/0235 gH AUTHOR: Kornilov, I. I. (Professor, Doctor of chemical sciences); Andreyev, O. N.; Voshedchenko, B. M.; Karmanov, V. A. TITLE: Comparative study of heat resistance (in titanium-alloy sheets and welds at 450, 550, 650 and 700C (Report presented at the 5-oye soveshchaniya po metallurgii, metallovedeniyu i primeneniyu titana i yego splavov (5th Conference on Metallurgy, Metallography and Application of Titanium and Its Alloys) held at Hoscow, 1963] SOURCE: Soveshchaniye po metallurgii, metallovedeniyu i primeneniyu titana i yego splavov. 5th, Moscow, 1963. Metallovedeniye titana (metallography of titanium); strudy* soveshchaniya. Moscow, Izd-vo TOPIC TAGS: titanium, alloy, heat resistant alloy, aluminum contuining alloy, menganese containing alloy, tin containing alloy, molybdenum 2 dontaining alloy, vanadium containing alloy, chromium containing alloy, iron containing alloy, silicon containing alloy, boron contain-ABSTRACT: Solid and welded I mm-thick sheets of OT4 VT5-1 VT14 TIM, OT4-2 AT3 AT4 AT6 Sand AT6 transum-base alloys (see Table I Cord the Enclosure) were tested for West resistance at 450, 550, 650

L 16468-55
ACCESSION NR: AT4048077

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Tab Alloy	ole 1.	Cr	45000	COMP	osit B	lon 8a	Ma	Mo	V	C C	N	и,	
AT free AT3 AT4 AT6 AT8 VI5-1 OT4	A1:	0,89 0,89 0,67 0,98	0,32 0,31 0,23 0,4 0,06 0,175	٠ خنه ٠	0,01 0,01 — —	2.22	1 1 1 1 1 1 2 2 1 1			0,023 0,027	0,013 0,018 0,021 0,03 0,03	0,005	
T3M VTI4	- 3,0		0,001	0,001				2,0		0,03		0,007	Э



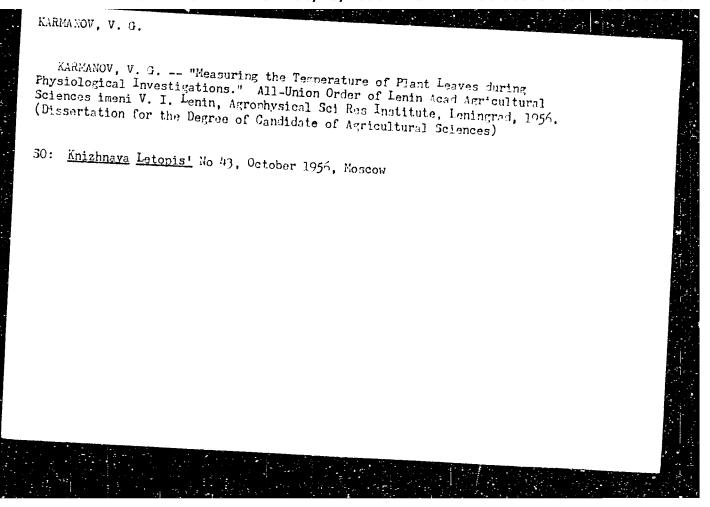
KARMANOV, V. G.

Botany - Physiology

Heat inertness in leaves. Dokl. AN SSSR 83 no. 3, March 1952 Agor-Fizicheskiy Institut Vsesoyuznoy Akademii Sel'skokhozyaystvennykh Nauk

SO: Monthly List of Russian Accessions, Library of Congress, August 1953, Uncl.

- 1. KARMANOV, V.G.
- 2. USSR (600)
- 4. Plants, Effect of Temperature on
- 7. Study of temperature changes in plant leaves resulting from heat released in the formation of ice. Dokl. AN SSSR 84 no. 2, 1952. Agrofizicheskiy Institut Vsesoyuznoy Akademii Sel 'skokhozyaystvennykh Nauk im. V. I. Lenina
- 9. Monthly List of Russian Accessions. Library of Congress, September 1952, UNCLASSIFIED. Leningrad rcd. 4. March 1952.



KARMANOV, V.G.; FUHPYANSKAYA, S.L.

Study of the diurnal course of transpiration in cotton plants.

Biofizika 1 no.1:43-48 *56. (MIRA 9:12)

1. Nauchno-issledovatel skiy agrofizicheskiy institut, Leningrad.

(COTTON) (PIANTS--TRANSPIRATION)

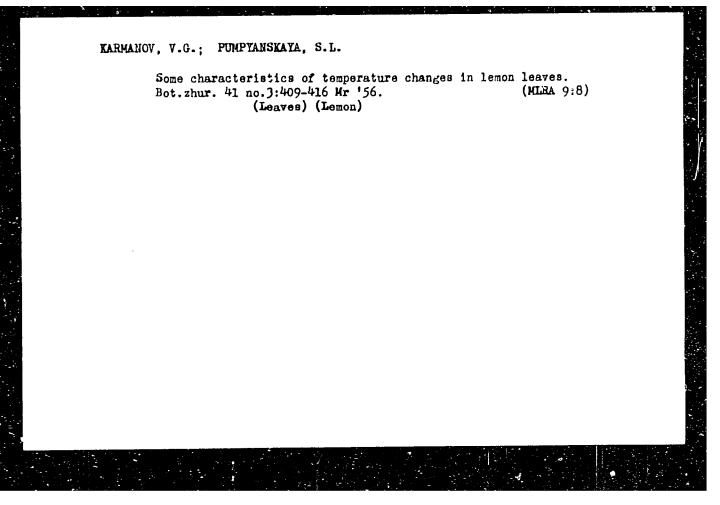
RARMANON. V.G., kandidat sel'skokhozyaystrennykh nauk; PUMPYANSKAYA,

S.L. kandidat sel'skokhozyaystrennykh nauk.

Reflection of the photoperiodic rhythm of cultivation in the transpiration of the stringbean. Agrobiologiia no.6:117-124 N-D'56.

1. Agrofizicheskiy nauchno-issledovatel'skiy institut, leningrad.

(Photoperiodism) (Plantse-Transpiration) (Beans)



17(1), 28(1)

Karmanov, V. G.

SOV/20-126-1-57/62

AUTHOR:

TITLE:

The Application of Automation and Cybernetics in Plant Cultivation (Prilozheniye avtomatiki i kibernetiki k rasteniyevodstvu)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 1, pp 207-209

(USSR)

ABSTRACT:

There is no guarantee, neither under natural conditions nor under greenhouse - or even laboratory conditions - that the plant will actually always grow under conditions providing highest productivity. One may only speak of average conditions, favorable or unfavorable, during a relatively long period. It is necessary, however, to observe the metabolic processes which take place in the organism and to adjust the surrounding conditions in such a way as to make them correspond to the highest vitality, if the highest degree of productivity shall be guaranteed in an organism. Plants hardly possess any system of apperception or of execution characteristic for higher animals. It is possible however, to equip plants and other simple organisms with an apparatus which observes and records the various processes, and which also adjusts the influence of the

Card 1/3

CIA-RDP86-00513R000720810003-0" **APPROVED FOR RELEASE: 06/13/2000**

SOV/20-126-1-57/62

The Application of Automation and Cybernetics in Plant Cultivation

surrounding world to the physiological condition of the organism. In the present paper, the author describes the results achieved in applying the apparatus he designed for regulating the light conditions of beans, according to a programme given by the plant itself. This regulation takes place by transpiration. As in his previous work (Refs 1-3), the author applied two methods for the definition of transpiration: a) the temperature method, b) the hygrometrical method. The fact that the plant itself, with the help of the apparatus, fixed a "24-hour" rhythm which actually resembles that of medium latitudes, according to the author's opinion, expresses the rhythm of internal physiological processes (in this case of transpiration) developed in the course of evolution, fixed by hereditary transmission and also reflecting the permanent surrounding conditions. This confirms the reliability of results formerly achieved and published by the author. Thus the modern means of automation make it possible to equip the plant with an apparatus which observes and records its transpiration, and which also adjusts the light conditions to this physiological process. This makes possible an artificial elimination of the

Card 2/3

SOV/20-126-1-57/62

The Application of Automation and Cybernetics in Plant Cultivation

main deficiency of plants, i.e. their complete dependence on the surrounding conditions. Plants here thus given the ability to perform certain functions which only higher animals possessed. It still remains the task of man to improve the apparatus in such a way as to adjust the conditions corresponding to the highest productivity of the plants. There are 5 Soviet references.

5 Soviet references

PRESENTED: October 25, 1958, by A. F. Ioffe, Academician

SUBMITTED: August 8, 1958

Card 3/3

S/169/63/000/001/017/062 D263/D307

AUTHORS:

Andreyeva, A.N., Karmanov, V.G. and Ryabova, Ye.P.

TITLE:

A semiconductor bolometric radiant energy receiver for phytophysiological and microclimatic investiga-

tions

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 1, 1963, 6, abstract 1846 (Sb. tr. po agron. fiz., 1962, no. 9,

162-170)

TEXT: Construction of the bolometer is described. The receiving semiconducting layer is $6-8~\rm mm^3$ in area and $\sim 10~\mu$ thick. Its resistance is $20-50~\rm k\Omega$ at $20^{\rm oC}$, with a temperature coefficient of 3.5% per degree at $20^{\rm oC}$, and a power dissipation of $200-300~\mu v$ per degree. Paired blocks of the bolometer are blackened and are placed in an internally blackened box, covered with fluorite filters. The device is 10 mm high and 11 mm in diameter and possesses a 20 mm tubular handle. The bolometer is connected into a bridge with a supply of 3-7 v. Sensitivity of the receiver is such as to allow

Card 1/2

A semiconductor ...

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operation with light intensities varying from direct solar illumination to e.g. 0.01% of that value (from 1.1 to 0.0001 volt.cm⁻²). The disadvantage of the bolometer is the nonlinearity of response when the film is heated, and a dependence of response on the bridge voltage. The following points are considered: measurement of the radiation balance components of leaves of vegetation, measurement of the intensity of monochromator light beams, measurement of the indicatrix of dispersed light, study of the radiational field of light installations, determination of the relative emissive characteristics of various bodies and the determination of the rate of drying of the ground and of leaves.

Abstracter's note: Complete translation

Card 2/2

KARMANOV, V.G.; SAVIN, V.N.

Self-fluctuating nature of water metabolism in bean plants. Dokl. AN SSSR 154 no.4:970-973 F '64. (MIRA 17:3)

l. Agrofizicheskiy nauchno-issledovatel'skiy institut. Predstavleno akademikom N.M. Sisakyanom.

KARMANOV, V.G.; MELESHCHENKO, S.N.

Some data on the effect of mineral nutrition on water balance in plants. Dokl. AN SSSR 164 no.3:699-700 S '65.

(MIRA 18:9)

1. Submitted December 21, 1964.

KARMANOV, V.G.; MELESHCHENKO, S.N.; SAVIN, V.N.

Nature of the changes in plant leaf impedance following autooscillatory regimen of water metabolism. Biofizika 10 no.1: 155-160 '65. (MIRA 18:5)

1. Agrofizicheskiy nauchno-issledovatel'skiy institut Ministerstva sel'skogo khozyaystva, Leningrad.

PELESHGHENKO, S.N., KARMANOV, V.G.

Effect of mineral nutrition or the water requirement in plants. Biofizika 10 no.6,1068-1075 165. (EIRs 1921)

l. Agrofizichoskiy nauchnowissledovateliskiy institut, Leningrad. Dubmitted November 30, 1965.

BLOCKTON, M.A.; DUYMAKAYEV, Sh.I.; KARMANOV, V.I.

Reading of degeneracy in X-ray spectral analysis by calculating the intensity of scattered radiation. Zav. lab. 31 no. 12:1452-454 465 (MIRA 19:1)

1. Rostovskiy gosudarstvennyy universitet.

SHILOV, B.M.; KARHANOV, V.V.: BAGRAMOV, E.S.; YEVSEYEVA, A.M.; LUKOMSKIY, I.K.; ROTOVA, M.N.; BELOVA, L.G.; MARTYNOV, V.I.; obshchiy red.; SHILOV, P.D., red.; VENGERSKAYA, S.R., tekhn.red.

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